

Press Release

Synapticon expands SOMANET to include WiFi module

Important building block for cyber-physical systems

Gruibingen (Germany), 7 November 2013 – Synapticon GmbH provides a development platform for distributed embedded systems and cyber-physical systems. With SOMANET COM WiFi, Synapticon has expanded its modular platform to include an important module: Nodes of distributed systems can now communicate wirelessly with one another or with external systems. An important component because the SOMANET ‘kit’ is designed for the development of autonomous systems and flexible automation solutions that can be built via distributed sensor/actuator nodes equipped with their own processor capacity, instead of with a central computer.

The new module, coming with integrated antenna, measures only 30 x 30 x 7.8 mm. SOMANET COM WiFi is designed in accordance with IEEE 802.11 b/g for data rates of up to 54 Mbit/s. The module is compatible with the wireless encryption protocols WEP, WPA and WPA2. It has a built-in TCP/IP stack and in addition to that it understands the protocols UDP, DHCP, DNS, ARP and ICMP natively and independently, without input from the processor module. With this equipment, for example, the module can independently collect data from internet servers and thus provide a central function of future cyber-physical systems as a SOMANET module.

“When experts of cyber-physical systems and automation talk about ‘Industry 4.0’, an internet connection is essential part of the concept. With our most recent development of SOMANET communication modules, the nodes of such a distributed system can now communicate wirelessly with each other and with other systems,” says Nikolai Ensslen, CEO of Synapticon GmbH, enthusiastically.

Images available

The images below can be downloaded from the Internet in printer-friendly format:

<http://www.htcm.de/kk/synapticon>



About Synapticon GmbH

Synapticon, established in 2010, is a young and international company based in Gruibingen, Baden-Württemberg, which develops innovative embedded systems to improve the robotics and automation technology of the future. Synapticon's DYNARC Distributed Computing Technology combines modular embedded hardware, model-based software engineering and a complete development environment to facilitate and accelerate the development process for manufacturers of complex products, machinery and facilities. Synapticon also operates as an engineering service provider.

Further information is available at www.synapticon.com.

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